

ARM Nauru Research Station

Site Visit 0501N Report

Visit Duration: 31 January to 11 February 2005

Nauru Island, Republic of Nauru

SV-0502N

Site: Nauru	Proposed Dates on Site: 31Jan05 - 11Feb05
Team Members: Mike Alsop	Ship or hand carry prior to SV: TSI (#107) MPL detector photon counting modules Envirogel desiccant for AERI (Mike to hand carry along with MSDS), 1 APC UPS Office battery
	Safety: Major Hazards: Caustic chemicals(KOH), Explosive gas(H2), AC electricity. Hazard Controls: BOM Electrolyser Handbook, BM Electrolyzer Operations/Maintenance Training, ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2 man rule.

Site Tasks

Priority	System	Date Completed (dd/Month)	Service Time in Hours	Tasks/Assoc Hazards-Controls For each priority item insert new line (row) for each date/time entry
1	ES&H	01/02/05	1	Ground fence and recheck earthing continuity and current
				Solid connector bolted to fence
2	AERI	03/02/05	1.5	Clean mirror and check desiccant
				Completed. Humidity level now 7.5
3	MPL	03/02/05	10	Install MPL detector photon counting module
				Final adjustments done. Job completed.
4	TSI	03/02/05	9.5	Install and commission TSI (#107)
				Final adjustments and bolted in place. Completed
5	ES&H	04/02/05	0.25	Check defibrillator operation
6	H2GEN	03/02/05	0.5	Change out gas tester sensor cell - Note quantity remaining
				Nil remaining
7	SAM	01/02/05	0.5	Change out battery in APC Office UPS that backs up laptop
				APC UPS removed and load transferred to Liebert UPS
8	PIR	04/02/05	0.25	Check ventilator operation and screen
9	PSP	04/02/05	0.25	Check ventilator operation and screen
10	TRACKER	03/02/05	0.25	Check sensor window for condensation
				All OK
11	NIP	03/02/05	0.25	Visual check
				All OK
12	SMET	05/02/05	0.5	Change out T/RH aspirator fan - Note quantity of spares
				New fan fitted. Old fan had stopped working
13	AERI	04/02/05	0.25	Actuate hatch sensor with moisture and check hatch operation visually
				Hatch worked OK
14	AERI	05/02/05	0.5	Inspect blower belt
				Belt is still OK. 5 belts left in stock.
15	MWR	03/02/05	1.5	Check fan screen for reduced air flow
				Fan bearing failing. New motor fitted. 3 spares left
16	MWR	03/02/05	0.25	Check Teflon window condition
				All OK

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17	MWR	03/02/05	0.25	Check heater operation
				Wet sensor. Heater worked OK
18	MWR	03/02/05	0.25	Check instrument for level
				Level OK
19	MWR	(ON HOLD)		Connect MWR air temperature sensor to analog board
				It was decided to hold this until Darwin done.
20	MMCR	05/02/05	0.25	Check operation of 12VDC fan for Lotech MUX 488/64
				OK.
21	MMCR	05/02/05	0.25	Check operation of antenna heater element
				OK.
22	MMCR	05/02/05	0.25	Check radiation receiver fan and clean filter
				OK.
23	MMCR	05/02/05	0.25	Clean TWT Amplifier air filter
				OK.
24	MMCR	05/02/05	0.25	Check operation of antenna heater blower
				OK.
25	MMCR	05/02/05	0.75	Change out antenna heater blower (this is on a 1-year change out) - Note quantity remaining
				Changed. One unit remaining in stock
26	MMCR	05/02/05	0.25	Check radome fabric
				OK.
27	MMCR	05/02/05	0.25	Clean receiver/modulator interface filters
				OK.
28	MMCR	05/02/05	0.25	Clean computer filters (foam)
				OK.
29	IRT	03/02/05	0.25	Corrosion check - Check lens, check mirror surface coating closely
				Mirror & corrosion all OK
30	MPL	02/02/05	1	Clean top glass
				Top glass removed completely and cleaned thoroughly
31	MPL	02/02/05	0.25	Check shade and mechanism
				Operation Checked
32	MWR	04/02/05	2.5	Replace heater/fan assembly (this is on a 1-year change out, due 29Jan05), then check corrosion on existing fan and report - Note quantity of spares
				Fan bearing failing. New motor fitted. 3 spares left
33	MWR	04/02/05	0.25	Rust checks on mounting bolts
34	CIMEL	02/02/05	0.25	Check battery voltage and terminals for corrosion
				Battery checked and all OK
35	CAMERA (Web)	05/02/05	0	Clean viewing lens
				What webcam???
36	POWER	05/02/05	0.25	Check battery connections
				All OK. Could do with some Vaseline on terminals.
37	SAT PHONE	04/02/05	0.25	Check antenna and connections for rust
				Antenna & Connections OK, some rust on mount.
38	Pickup Truck	05/02/05	0.5	Inspect for damage and rust
				Minor panel damage. Much rust, but operational.
39	VANS	05/02/05	0.5	Inspect Vans for rust
				Surface rust evident, but structurally no problems.
40	VANS	05/02/05	0.25	Check dehumidifier operation/draining

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41	VSAT	05/02/05	0.25	Check VOIP functions
				VOIP performance poor this trip. Severe packet loss and no connectivity at times.
42	WSI	08/02/05	9	Decommission and disassemble WSI - Make sure TSI is operational before turning off WSI (Wait to do this until the day before Mike leaves)
				All out. The guys are starting on the packing with my help
43	SHIPPING	10/02/05	13	List items to be shipped following visit:
				WSI, MPL, 6 HDD's
44	FUTURE NEEDS			List items needed for future visits (spares, etc.)/ None